TYPE OR PRINT IN BLACK INK (For instructions, see booklet: "How to File an Application to Appropriate Water in California")



California Environmental Protection Agency State Water Resources Control Board Division of Water Rights Division of Water Rights
P.O. Box 2000, Sacramento, CA 95812-20006 AUG 39 PM 3: 53

APPLICATION NO. A031635

Tel: (916) 341-5300 Fax: (916) 341-5400 www.waterrights.ca.gov

APPLICATION TO APPROPRIATE WATER

SECTION A: NOTICE INFORMATION

1. APPLICANT/AGEN

a. 4	APPLICANT	ASSIGNED AGENT (if any)
Name	Hestan Vineyards, LLC	Wagner & Bonsignore
Mailing Address	1 Meyer Plaza	444 N. Third St., #325
City, State & Zip	Vallejo, CA 94590	Sacramento, CA 95810
Telephone		(916) 441-6850
Fax		(916) 448-3866
E-mail		ryans@wagner-engrs.com

City, State & Zip	Vallejo, C	A 94590		Sacr	amento,	CA 95810	
Telephone				(916) 441-6	850	
Fax				(916) 448-3	866	
E-mail				ryan	s@wagne:	r-engrs.c	om
OWNERSHIP IN Sole Owner Limited Partner Corporation Please provide a copy of you PROJECT DES	ship*	Limited Liab Business Tru Joint Ventur Provide a de	oility Companust e tailed descript	y (LLC) ion of your pr	☐ Husbar ☐ Other _	Il Partnership* nd/Wife Co-Ov ding, but not list used.)	wnership
▼ For continuation,							
PURPOSE OF	USE, DIVERS	ION/STO	RAGE AMO	OUNT AND	SEASON		
a. PURPOSE		DIRECT	DIVERSION			STORAGE	
OF USE		UNT		DIVERSION	AMOUNT	SEASON OF C	
(irrigation, domestic, e	(cfs or gpd)*	Acre-feet per year	Beginning date (month & day)	Ending date (month & day)	Acre-feet per year	Beginning date (month & day)	Ending date (month & day)
Irrigation					160	11-1	6-1
Frost Prote	ction	- 0.07					44.
Heat Contro	1						
Incidental	Fire Prote	ction an	nd Recrea	tion	m		1
 See Attachment No. Total combinet Reservoir stora County in white Assessor's Part 	d amount taken b ge is: onstreach diversion is lo	ım □ offstr cated: Na	ersion and stor eam 🗆 under	rage during an ground (If und County in whi	y one year v	cfs), use gallons per will be16 age, attach Form A ll be used:1	O acre-feet. APP-UGSTOR.)
thence Led	oints of Diversion of PORD #1 : Upgewood Cre	on (POD)/Po nnamed S ek thenc Innamed	oints of Redive Stream Se Peyton:	ersion (PORD) tributa ia Sloug	ry to Gor gh thenc	don Valle e Suisun named Str	Slough t
	on Valley PORD# <u>3</u> :_ [Creek Jnnamed	Stream	tributa	ry to <u>Go</u>	rdon Vall	ey Creek
POD / D]	PORD #:			tributa	ry to		

☐ See Attachment No.

b. State Planar and Public Land Survey Coordinate Description: RANGE BASE AND SECTION TOWN POINT IS WITHIN CALIFORNIA ZONE POD/ -SHIP **MERIDIAN** (40-acre subdivision) COORDINATES PORD (NAD 27) # N 238,500 1/4 of SW 6N 2W MD 32 NE 2 1 E 1,968,950 6N 2.W MD 1/4 31 14 of SE N 236,650 2 2 E 1,966,300 N 238,650 3 1/4 MD 1/4 of SW 32 6N 2W 2 E 1,969,050 1/4 of 1/4 ☐ See Attachment No. c. Name of the post office most often used by those living near the proposed point(s) of diversion: 6. WATER AVAILABILITY a. Have you attached a water availability analysis for this project? 🖾 YES 🗀 NO If NO, provide sufficient information to demonstrate that there is reasonable likelihood that unappropriated water is available for the proposed appropriation: See Attachment No. 2 Is your project located on a stream system declared to be fully appropriated by the State Water Resources Control Board during your proposed season of diversion?

YES X NO In an average year, does the stream dry up at any point downstream of your project? 🖾 YES 🗆 NO If YES, during which months?

Jan

Feb

Mar

Apr

May

Jun

Jul

Aug

Sep

Oct

Nov

Dec d. What alternate sources of water are available if a portion of your requested diversion season must be excluded because water is not available for appropriation? (e.g., percolating groundwater, purchased water, etc.) None ☐ See Attachment No. 7. PLACE OF USE IF IRRIGATED BASE & SECTION* TOWNSHIP RANGE USE IS WITHIN MERIDIAN Presently cultivated? (40-acre subdivision) Acres ☐ YES ☐ NO 1/4 of 1/4 ☐ YES ☐ NO 1/4 Total: *Please indicate if section is projected with a "(P)" following the section number. ☑ See Attachment No. 3 8. PROJECT SCHEDULE a. Project is: proposed. Year construction will begin: _ A partially complete. Extent of completion: Reservoir #1 was constructed originally around 1950 and 66 acres of the place of use has been developed.

Year of first use: 1977 for existYear water will be used to the full extent intended: 2015

☐ complete. Year completed:

ing vineyard

SECTION B: MISCELLANEOUS DIVERSION INFORMATION

1. JUSTIFICATION OF AMOUNTS REQUESTED

Commence of the Commence of th	ACRE		IRRIGATION	WATER USE		WATER USE
		(sprinklers, f	looding, etc.)	(Acre-feet/Yr.)	Beginning date (month & day)	Ending date (month & day)
Vineyards	81	Drip		160	4-15	10-15
Lawns & g	ardens 6	Sprinkle	rs	J	1-1	12-31
See Attachment l						
Number of pe Area of dome	eople to be served	dences to be served: 1: Estirardens:	nated daily use	per person is:	□ YES □ NO ga	llons per day
		(dust control a	The state of the s	of domestic animals,		
Describe type	ATERING: Kin of operation:	d of stock:	(foodlot)	Maximum	number:	
Inciac	TO TO D	of recreation: 🏻 F			o D Other	
		of fedreation. Mr	isning to Swiii	uning & Doam	ig 🗀 Ouloi	
. D MUNICIF	AL: LATION ds until use is complete	MAXIMUN	M.MONTH		ANNUAL USE	
Period	Population	Average daily use (gallons per capita)		Average daily use (gallons per capita)		Total (acre-feet)
Present		(garana para)				
				- 22		
					4	
See Attachment No	·		The second second			Alexander 1
Month of max	kimum use during	g year:	Month of	minimum use d	uring year:	
: MEAT CO	NTROL: Area to	be heat controlled	: 81	net acres		
						Tress
	water is applied on season will be		gpm per act			
El PROGER	OFFICE A	(month & day) rea to be frost prot		(month & day)		
Type of crops	ROTECTION: A	rea to be frost prot leyard	ected: 81	net acres		
Rate at which	water is applied	to use: 55	gpm per ac	ore 5		
The frost prot	ection season wil	ll begin 3-1	and end	5-31 (month & day)	_	
	IAL: Type of in	dustry:				
		ount of water neede				
☐ MINING:	Name of the class	im:			☐ Patented	☐ Unpatented
Nature of the	mine: ng or processing:					
After use, the	water will be dis	charged into				(watercourse)
in1/4	of 1/4 of	charged into Section	, T, R		_B. & M.	
□ POWER:	Total head to be	utilized:	feet			
Maximum flo	w through the per	nstock:	cfs			
Maximum the	oretical horsepov	ver capable of bein	g generated by t	he works (cfs x fai	l ÷ 8.8):	
	water will be dis	charged into	Knowatts at.		icy	(watercourse)
After use, the			-	D 6	M EEDCNI	0.:
After use, the in 1/4 of	1/4 of Sec	tion, T _	, K	,B. &	M. FERC N	0
After use, the in 1/4 of . FISH ANI	WILDLIFE PR	etion, T _ ESERVATION AN enhanced in Item 7	ID/OR ENHAN			

	Pump d	on will be by p ischarge rate:_	1	¤	cfs or	□ gpd]	Horsepo	wer:	5	Pum	Effi	iciency	6007
	c. Conduit CONDUIT (pipe or channel)	from diversion MAT (type of pipe of indicate if pipe	ERIAL r chann	el lining;	(pipe	or to offstr CROSS-SEC diameter, or top and bott	CTION ditch dep	th (fe	et) _	LIFT (1111	LL	CAPACITY (cfs, gpd or gpm)
		White and A. C.	is ouric	a or not)		(inches or		(19)	100.380	feet	1:::+::	- X	7 h (7.5 Y
. 2	Pipe	PVC				2 ¹³		33	00	135	+		50 gpm 300 gpm
. 1	Pipe	PVC		19 Ass		U	<i>i</i>	3,		20			J 0 0 9 pm
	☐ See Attach	ment No			a.V.								
	d. Storage	reservoirs: (F	or und	erground	l storag	ge, comple	te and at	ttach form	n APP-	UGST	OR)		
	RESERVOI	and the desired beauty of		That's	DAM				34,9° 3, 11,6°			RVOIR	
	NAME OR NUMBER	toe of Stop	tream e to		iction rial	Length (feet)	dam hei	board: ight above ay crest	Surfac when (acı			pacity e-feet)	Maximum water dept (feet)
	1	spillway leve	el (feet:	Eart		700	(f		11	1	1	46	24
	2	70		Eart	200	225	2	I	1			4	23
	☐ See Attach	ment No.											
		ipe: Complete	for et	orage res	ervoirs	s having a	canacity	of 10 acı	re-feet	or mor	e		
	RESERVOII NAME OR	CALL BURGOVER CONTRACTOR	Len	gth		The steel of	OUTLET	Same that	Head:				nd Storage: below entranc
	NUMBER		S.P.	ent	rance an	id exit of out (feet)	let pipe	way to ent	rance of (feet)	outlet pi	pe :	of (outlet pipe acre-feet)
	1	Reservo		s exis	sting		ateri	ing wi			comp		ed by p
	2	101		700 100 100		11	- 52		211	ı			⊃ f
		will be stored								ximum		of dive	
	f. If water stream s CONSERVA a. What me b. How will wasting wasting wasting that	ment No	and th O.6' (D M() use to vour di r X M n Res	onserv	RING e water to be su Period	ot at the posion to off	e within ag 🖾 O	the limits ther (descend a n	the maxill be m igati of you cribe) meter	ximum ade by on ir water Inst	right	of dive Pumpi t and y ment pip	rsion to offing Grav
4.	b. How will wasting wasting that to Res	will be stored storage will be storage will be watton and many water? FACCESS applicant own and and many and many and many water and many water and many water and many water applicant own and many water and many and m	and the 0.6' (D M() use to your dir \(\subsetem \) \(\text{N} \) 1 Resvate: 11 1 all the not have	onserversion to the front of th	RING e water to be su Period rs # n Res	ot at the posion to officer? Explain are you are lic sampling 1 and servoir	e within ag 🖾 O #2, a #1 t	the limits other (descend a nacco Reserverted, tra	the manification of your cribe) _ meter ervoi	ximum ade by ton r water Inst on r #2	right all the and used?	t and y ment pip d fr	ersion to offing Grave You are not soffines om POD

Page 4 of 7

	water diversion a	nd use, if applicab	ne.		
	-				
	c. List any related a	pplications, regist	rations, permits, or lice	nses located in the prop	posed place of use or that
	☐ See Attachment N		W g		
6.		sing, or do you int	end to use, purchased v		by contract in connection
7	MAP REQUIRE	MENTO			
	The Division cannot location of water use range, section and quof a U.S.G.S. quadra goods stores or throu (1) appropriating mojurisdiction of the D (4) appropriating momore information.	t process your apple. You must incluuarter/quarter sect angle/topographic ugh the Internet at pre than three cfs bivision of Safety one than 1000 acre	ide a map with this application of (1) the proposed map of your project are http://topomaps.usgs.g by direct diversion, (2) of Dams, (3) creating a	ication form that clearl points of diversion and a is preferred, and can ov. A certified engined constructing a dam whiteservoir with a surface	the source of water and y indicates the township, (2) the place of use. A cop be obtained from sporting ering map is required when ich will be under the area in excess of ten acres the instruction booklet for
	See Attachment No. 4	<u>4</u>			
	SEC	TION C: F	NVIRONMEN	TAL INFORM	ATION
mus Env prej	st consider the inform rironmental Quality A pared for your projec	nation contained in Act (CEQA). This t, a determination	n an environmental doc s form is not a CEQA d must be made of who i	ument prepared in compoument. If a CEQA descriptions or its presentation of the compound of th	pliance with the California ocument has not yet been paration. If the SWRCB is
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Achiment No
achment No in contacted the California Department of Fish and Game concerning your project?
achment No in contacted the California Department of Fish and Game concerning your project?
achment No
achment No
MENTAL DOCUMENTS California public agency prepared an environmental document for your project? YES NO submit a copy of the latest environmental document(s) prepared, including a copy of the notice of ation adopted by the California public agency. Public agency: puplicant is a California public agency and will be preparing the environmental document.* ect that the SWRCB will be preparing the environmental document.* ect that a California public agency other than the State Water Resources Control Board will be aring the environmental document.* Public agency: When completed, submit a copy of the final environmental document (including notice of determination) or a of exemption to the SWRCB, Division of Water Rights. Processing of your application cannot proceed until documents are submitted. CEQA requires that the SWRCB, as Lead Agency, prepare the environmental document. The information fined in the environmental document must be developed by the applicant and at the applicant's expense under rection of the SWRCB, Division of Water Rights. ASTEWATER
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California public agency prepared an environmental document for your project? YES NO submit a copy of the latest environmental document(s) prepared, including a copy of the notice of ation adopted by the California public agency. Public agency:
neck the appropriate box and explain below, if necessary: applicant is a California public agency and will be preparing the environmental document.* ect that the SWRCB will be preparing the environmental document.** ect that a California public agency other than the State Water Resources Control Board will be aring the environmental document.* Public agency:
applicant is a California public agency and will be preparing the environmental document.* ect that the SWRCB will be preparing the environmental document.** ect that a California public agency other than the State Water Resources Control Board will be aring the environmental document.* Public agency: achment No When completed, submit a copy of the final environmental document (including notice of determination) or e of exemption to the SWRCB, Division of Water Rights. Processing of your application cannot proceed untidocuments are submitted. CEQA requires that the SWRCB, as Lead Agency, prepare the environmental document. The information ined in the environmental document must be developed by the applicant and at the applicant's expense under rection of the SWRCB, Division of Water Rights. ASTEWATER
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ndustrial chemicals, metals, or agricultural chemicals, or (2) cause erosion, turbidity or sedimentati NO or you are unsure of your answer, explain below and contact your local Regional Water Quality Core the following information (See instruction booklet for address and telephone no.):
schment No
ste discharge permit be required for your project? YES NO
ontacted: Date of contact:
thod of treatment and disposal will be used?
hment No
OGY
archeological reports been prepared on this project? ☐ YES ☒ NO
be preparing an archeological report to satisfy another public agency? YES NO
now of any archeological or historic sites located within the general project area? YES NO xplain:
chment No
MENTAL SETTING complete sets of color photographs, clearly dated and labeled, showing the vegetation that exists ag three locations:

APP 04/04

SECTION D: SUBMITTAL FEES

Calculate your application filing fee using the "Water Right Fee Schedule Summary" that was enclosed in the application packet. The "Water Right Fee Schedule Summary" can also be viewed at the Division of Water Rights' website (www.waterrights.ca.gov).

A check for the application filing fee, payable to the "Division of Water Rights" and an \$850 check for the environmental review fee, payable to the "California Department of Fish and Game," must accompany this application. All applicable fees are required at the time of filing. Your application will be returned to you if it is not accompanied by all required fees.

SECTION E: DECLARATION AND SIGNATURE

I declare under penalty of perjury that all information provided is true and correct to the best of my knowledge and belief. I authorize my agent, if I have designated one above, to act on my behalf regarding this water right application.

Signature of Co-Applicant (if any)

OWNER
8-23-06

Date

Signature of Co-Applicant (if any)

Title or Relationship

Date



"APPLICATION TO APPROPRIATE WATER" CHECKLIST

Before you submit your application, be sure to:

- □ Answer each question completely in Sections A, B, and C.
- Number and include all necessary attachments.
- Include a legible map that meets the requirements discussed in the instruction booklet (Item B6).
- Include the Water Availability Analysis or sufficient information to demonstrate that there is reasonable likelihood that unappropriated water is available for the proposed appropriation (Item A6).
- Include three complete sets of color photographs of the project site (Item C6).
- Enclose a check for the required fee, payable to the Division of Water Rights, as specified in Section D.
- Enclose a \$850 check for the environmental review fee, payable to the Department of Fish and Game, as specified in Section D.
- ☐ Sign and date the application in Section E.

Send the original and one copy of the entire application to:

State Water Resources Control Board Division of Water Rights P.O. Box 2000 Sacramento, CA 95812-2000

APP 04/04

Page 7 of 7

Attachments to Accompany Water Right Application Hestan Vineyards, LLC

Attachment #1
3. Project Description

This project consists of storage of water in one existing and one proposed reservoir and the diversion of water from a proposed offset well located on an unnamed stream on the Applicant's property. The existing reservoir at POD #1 was built in the 1950's as a stockwatering pond. Reservoir #1 has a capacity of 146 acre-feet and collects water from its tributary area and will be supplemented with water diverted at Point of Diversion #3. The proposed reservoir at POD #2 will have a capacity of 14 acre-feet. Reservoir #2 will collect water from its tributary watershed and will be supplemented with water diverted at Points of Diversion #1 & #3.

Water will be used for irrigation, heat control and frost protection of 62 acres of existing vineyards and 19 acres of proposed vineyards and irrigation of 6 acres of lawns and gardens for a total place of use of 87 acres. Water will also be used for incidental recreation and fire protection purposes at the reservoir sites.

The existing place of use was developed in 1997 and is currently irrigated from Reservoir #1. The property has historically been used as pasture and grazing lands since the early 1900's.

New development will be required for the proposed Reservoir at Point of Diversion #2 and the 19 acres of proposed place of use. The additional place of use will be planted in areas that are naturally cleared and have been historically used as pasture (see attached photographs). Construction of Reservoir #2 may require the removal of some trees. The number and type of trees to be removed (if any) will be identified in the required environmental document.

HESTE005.DOC

ATTACHMENT 2

Estimate of Water Availability to Accompany Water Right Application by Hestan Vineyards

California Water Code Section 1260(k) requires that every application for a permit to appropriate water shall include "sufficient information to demonstrate a reasonable likelihood that unappropriated water is available for the proposed appropriation." This narrative and accompanying calculations provide the required information.

The subject Application is located in Napa County within the watershed of an unnamed stream tributary to the Gordon Valley Creek (see attached map), thence Ledgewood Creek, thence Peytonia Slough, and thence Suisun Slough. According to State Water Resources Control Board Order WR 98-08, there is no fully appropriated limitation on the subject watershed. The Application proposes a diversion season of November 1 to June 1, which conforms to Order WR 98-08. The following describes the methodology used to demonstrate a *reasonable* likelihood that water is physically available for the proposed appropriation.

The attached map shows the proposed points of diversion and the watershed areas tributary thereto. The map also shows line of equal mean annual runoff as shown on the map included with the document entitled *Mean Annual Runoff in the San Francisco Bay Region, California, 1931-70 by S.E. Rantz, 1974.* An excerpt of this map is attached (Rantz map).

The weighted mean annual runoff for the watersheds tributary to the proposed points of diversion was computed based on the Rantz map. Mean *seasonal* runoff for the subject watersheds was estimated by adjusting the mean annual runoff assuming that the ratio of seasonal to annual runoff is identical to the ratio of seasonal to annual mean precipitation. The Fairfield precipitation station was used for this purpose. The resulting seasonal runoff value was adjusted by deducting the *face value* of any senior water rights in the watershed above the proposed points of diversion.

Calculations for the foregoing methodology are attached for PODs 1 and 3 (combined), and POD 2. These calculations show the following:

Location	Estimated Runoff <u>Available</u> (af)	Proposed Diversion (af)	Net Runoff Remaining <u>In Stream</u> (af)
PODs 1 and 3 combined	340	146 to Res. 1 12.1 to Res. 2	182
POD 2	1.9	14	0

Based on the foregoing, it is reasonable to conclude that water is available for the subject Application.

HESTB007.doc

¹ USGS Miscellaneous Field Studies Map MF-613, prepared in cooperation with the California Department of Water Resources.

Water Right Application by Hestan Vineyards Estimate of Water Availability

Reservoir #2

Monthly Precipitation⁽¹⁾ FAIRFIELD, CALIFORNIA

Month	Mean Precipitation (in)	
October	1.21	
November	2.86	
December	4.44	
January	4.95	
February	3.99	
March	3.13	
April	1.37	
May	0.54	
June	0.17	
July	0.02	
August	0.07	
September	0.26	
Annual	23.01	

Mean precipitation for requested diversion season (11/1 - 6/1):	21.28 in
Precipitation during requested diversion season as a percentage of total precipitation:	92.48%
Mean Annual Runoff:(2)	10.0 in
Estimated Mean Seasonal Runoff:(3)	9.2 in
Watershed Area for POD #2:	2.5 ac
Total Estimated Mean Seasonal Runoff at POD #2:	1.9 ac-ft
Senior diverters of record within watersheds (face value):	n/a
Subtotal water available:	1.9 ac-ft
Requested diversion amount:	14.0 ac-ft
Deficit:	-12.1 ac-ft
Amount to be transferred from PODs #1 & #3:	12.1 ac-ft

Notes:

⁽¹⁾ Source: Western Regional Climate Center website, http://www.wrcc.dri.edu/summary/climsmnca.html

⁽²⁾ Mean Annual Runoff in the San Francisco Bay Region, California, 1931-70 (Miscellaneous Field Studies Map MF-613), by S.E. Rantz, 1974.

⁽³⁾ Estimated mean seasonal runoff is computed by multiplying mean annual runoff by percent seasonal precipitation.

Water Right Application by Hestan Vineyards Estimate of Water Availability

Filling of Reservoir #1 from Point of Diversion #3, and Reservoir #1 Watersheds

Monthly Precipitation(1)

FAIRFIELD, CALIFORNIA

Month	Mean Precipitation (in)
October	1.21
November	2.86
December	4.44
January	4.95
February	3.99
March	3.13
April	1.37
May	0.54
June	0.17
July	0.02
August	0.07
September	0.26
Annual	23.01

7 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	
Mean precipitation for requested diversion season (11/1 - 6/1):	21.28 in
Precipitation during requested diversion season as a percentage of total precipitation:	92.48%
Combined Mean Annual Runoff. ⁽²⁾	10.0 in
Estimated Mean Seasonal Runoff:(3)	9.2 in
Combined Watershed Area for PODs #1 and #3:	443.0 ac
Total Estimated Mean Seasonal Runoff at PODs #1 and #3:	339.6 ac-ft
Senior diverters of record within watersheds (face value):	n/a
Subtotal water available:	339.6 ac-ft
Requested diversion amount at PODs #1 and #3:	146.0 ac-ft
Transfer to POD #2:	12.1 ac-ft
Total seasonal amount remaining in stream after diversion:	181.5 ac-ft
	The second secon

Notes

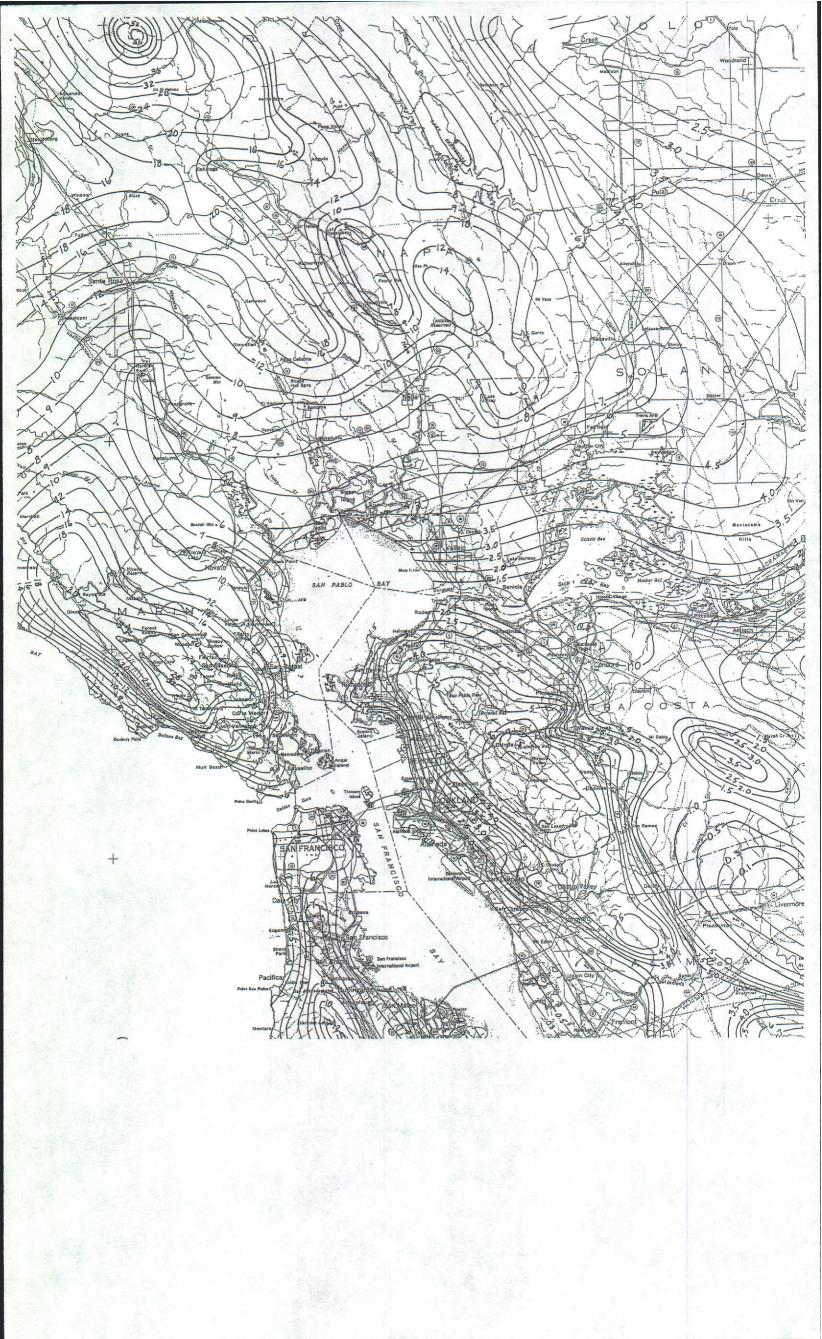
⁽¹⁾ Source: Western Regional Climate Center website, http://www.wrcc.dri.edu/summary/climsmnca.html

⁽²⁾ Mean Annual Runoff in the San Francisco Bay Region, California, 1931-70 (Miscellaneous Field Studies Map MF-613), by S.E. Rantz, 1974.

⁽³⁾ Estimated mean seasonal runoff is computed by multiplying mean annual runoff by percent seasonal precipitation.

Hestan Vineyards Calculation of Weighted Mean Annual Runoff in POD Watersheds

Watershed	Area (ac)	Mean Annual Runoff (in)	Volume (ac-in)	Volume (ac-ft)
PODs 1, & 3			Property A	
	5.4	9.4	50.8	4.2
	59.7	9.6	573.1	47.8
	112.7	9.9	1115.7	93.0
	218.0	10.1	2201.8	183.5
	35.5	10.0	355.0	29.6
	11.7	9.9	115.8	9.7
Total	443.0		4,412	368
Weighted Average	300 200 200 200 200 200 200 200 200 200	10.0		
POD 2			0.5.0	2.1
	2.5	10.0	25.0	2.1
Total	2.5		25	2
Weighted Average		10.0	1 (A) 1.40	



FAIRFIELD, CALIFORNIA

Monthly Total Precipitation (inches)
-42934

File last updated on Jul 24, 2006

*** Note *** Provisional Data *** After Year/Month 200603

a = 1 day missing, b = 2 days missing, c = 3 days, ..etc..,

z = 26 or more days missing, A = Accumulations present

Long-term means based on columns; thus, the monthly row may not

sum (or average) to the long-term annual value.

MAXIMUM ALLOWABLE NUMBER OF MISSING DAYS: 5

Individual Months not used for annual or monthly statistics if more than 5 days are missing. Individual Years not used for annual statistics if any month in that year has more than 5 days missing.

WY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANN
1950				0 z	0 z	0 z	0 z	0 z	0 z	0 z	0 z	0 z	-
1951	0 z	0 z	3.86 d	3.4	2.1	2.19	0.98	0.83 a	0	0	0	0 Ъ	-
1952	1.28 c	4.84	8.25	9	1.31 a	2.68	0.77	0.27	0.4	0 e	0	0 h	
1953	0 p	2.08 c	7.79 p	4.31	0	2.26 c	2.58 a	0.35 g	0.38 d	0	0.04	0 f	- -
1954	00	2.93 f	0.72	3.02 b	2.94	2.76 c	1.97	0.17	0 ј	0 r	0 ј	0	-
1955	0 j	0 i	4.96 j	3.16	1.61 g	0.53	2.21	0.32	0 d	0 c	0	0.28	-
1956	0.05 a	2.06	13.66	7.89	2.11	0.32 g	1.1	0.08 f	0.04	0	0	0.55	-
1957	0.41 d	0.12	0.33 g	2.48 b	4.46	1.69 h	1.61	0.73 h	0	0 g	0 d	0.41 c	-
1958	3.66	0.37	2.73	4.22 e	9.55	6.02	4.33	0.64	0.33	0.15	0.07	0.04	32.11
1959	0.13	0.08	1.1	5.19	5.59	1.05	0.19	0	0	0	0	2.49	15.82
1960	0	0	2.34	3.11	4.79	2.21	1.05	0.74	0	0	0	0	14.24
1961	0.13	3.01 a	1.55	4.06	0.96	1.92	0.71	0.2	0.04	0	0.05	0.15	12.78
1962	0.18 j	4.01	2.34	0.8	6.25	3.05	0.22	0	0	0	0	0	-
1963	7.85	0.16	2.58	5.32	2.67	3.59	5.49	0.45	0.09	0	0	0.4	28.60
1964	1.77	2.8	0.48	3.22	0	1.91	0.12	0.22	0.93	0.04	0.05	0	11.54
1965	2.23	2.85	5.01	4.34	0	1.35	2.94	0.12	0	0	0.43	0	19.27
1966	0	4.94	2.63 S	4.46	2.49	0.26	0.34	0.45	0	0.08	0.18	0.37	-
1967	0	5.68	4.39	9.9	0.31	4.17	4.78	0.12	1.45	0	0	0.05	30.85
1968	0.36	1.36	1.75	4.93	3.11	2.31	0.29	0.4	0	0	1.18	0	15.69
1969	0.75	3.55	4.44	9.8	7.04	1.95	1.25	0	0.1	0	0	0	28.88
1970	2.12	0.46	6.16	11.75	1.36	1.86	0.16	0	0.39	0	0	0	24.26
1971	0.76	5.94	6	1.86	0.26	2.72	0.22	0.69	0	0	0	0.15	18.60
1972	0.06	2.2	4.16	1.3	1.54	0.19	1	0.02	0.2	0	0	0.98	11.65
1973	4.6	6.73	1.67	11.54	5.62	2.71	0.19	0.14	0	0	0	0.35	33.55
1974	1.66	7.2	4.73	3.64	1.06	4.61	1.8	0.11	0	0.6	0	0	25.41
1975	1.29	0.88	3.79	1.16	7.03	5.58	1.13	0.07	0.1	0.06	0.14	0.03	21.26
1976	3.5	0.44	0.3	0.52	1.31	1.89	0.86	0	0.01	0	0.66	0 z	
1977	0.33	1.02	1.26	1.89	1.06	2.13	0.14	0.81	0	0	0	1.08	9.72
1978	0.42	5.44	5.51	9.73	5.25	5.12	2.02	0.05	0.05	0	0	0.23	33.82
1979	0	1.67	0.84	9.13	4.31	1.93	1.19	0.59	0	0	0	0	19.66
1980	2.38	2.47	6.58	6.94	10.33	3.58	1.24	0.34	0.01	0.13	0	0	34.00
1981	0.2	0.08	2.67	5.14	1.11	3.74	0.36	0.04	0	0	0	0.19	13.53
1982	1.4	5.91	5.72	8.12	3.82	6.14	5.05	0	0.01	0	0	1.11	37.28
1983	2.74	4.32	2.51	5.78	8.72	10.89	3.06	0.79	0	0	0.01	0.74	39.56
1984	0.3	6.51	7.48	0.3	1.49	1.17	0.8	0	0.08	0	0.17	0.1	18.40
1985	1.96	6.52	1.26	0.68	1.95	4.14	0.06	0.02	0.02	0	0	0.3	16.91
1986	0.65	4.32	3.05	4.57	11.3	5.61	0.99	0.19	0	0	0	1.09	31.77
1987	0.38	0.1	1.14	3.02	4.12	3.14	0.08	0.07	0	0	0	0	12.05
1988	0.95	2.97	5.63	5.62	0.39	0.26	1.49	0.68	0.36	0	0	0	18.35
1989	0.17	3.86	3.93	1.05	1.82	5.23	0.37	0.01	0.21	0	0	1.37	18.02
			Control of the	AC THE STATE OF TH	ALC: UNITED IN	1200 1200 1200		A STATE OF THE STA	Carlotte and the	191			

W														
1990	1.59	1.66	0	4.26	2.44	0.8	0.24	3.25		0	0	0.26	14.50	
			1	0.47	3.21	9.17	0.31	0.09	0.02	0	0.02	0	14.87	
		0.67	2.42	2.03	7.09	4.14	0.63	0	0.49	0	0	0		
		0.26	9.55	10.57	5.79	2.48	0.55 a	0.86	0.96	0	0	0		
			2.39	2.71	4.31	0.14	1.19	1.26	0	0	0	0.02		
			4.49	12.47	0.14	9.21	0.88	1.21	1.83	0	0	0		
			10.02	8.65	8.34	2.32	2.18	3.03	0	0	0	0		
			11.67	11.07	0.28	0.52	0.2	0.47	0.27	0	0.41	0		
				8.95	14.71	2.35	2.3	3.29	0	0	0	0.34	41.78	
				2.11	6.97	2.85	1.73	0.03	0	0	0	0.04	20.30	
					11.25	2.87	1.29	0.98	0.17	0	0	0.08	26.61	
					6.35	1.37	0.62	0	0.08	0	0	0.2	16.80	
					1.37	1.95	0.1	1.33	0	0	0	0	23.05	
						2	2.92	1.02	0	0	0.33	0	27.88	
					7.68	0.91	0.16	0.05	0	0	0	0.04	19.48	
					4.24	4.28	1.43	1.46	0.28	0	0	0.01	29.48	
					4.02	8.87	4.96	0.59	0	0 q	0 z	0 z		
					Period	of Record	d Statistic	S						
MEAN	1.21	2.86	4.44	4.95	3.99	3.13	1.37	0.54	0.17	0.02	0.07	0.26	23.37	
					14.71	10.89	5.49	3.29	1.83	0.60	1.18	2.49	41.78	
					0.00	0.14	0.06	0.00	0.00	0.00	0.00	0.00	9.72	
NO YRS	51	53	52	56	55	54	56	53	55	53	54	52	45	
	1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 MEAN MAX MIN NO YRS	1991 0.23 1992 1.99 1993 3.17 1994 0.59 1995 0.28 1996 0 1997 1.61 1998 0.81 1999 0.71 2000 0.56 2001 2.54 2002 0.5 2003 0 2004 0 2005 2.3 2006 0.24 MEAN 1.21 MAX 7.85 MIN 0.00	1991 0.23 0.35 1992 1.99 0.67 1993 3.17 0.26 1994 0.59 2.65 1995 0.28 5.3 1996 0 0.08 1997 1.61 3.58 1998 0.81 6.73 1999 0.71 4.29 2000 0.56 2.91 2001 2.54 1.15 2002 0.5 4.47 2003 0 3.8 2004 0 1.08 2005 2.3 3.3 2006 0.24 2.16 MEAN 1.21 2.86 MAX 7.85 7.20 MIN 0.00 0.00	1991 0.23 0.35 1 1992 1.99 0.67 2.42 1993 3.17 0.26 9.55 1994 0.59 2.65 2.39 1995 0.28 5.3 4.49 1996 0 0.08 10.02 1997 1.61 3.58 11.67 1998 0.81 6.73 2.3 1999 0.71 4.29 1.57 2000 0.56 2.91 0.52 2001 2.54 1.15 1.13 2002 0.5 4.47 10.23 2003 0 3.8 13.86 2004 0 1.08 6.72 a 2005 2.3 3.3 6.66 2006 0.24 2.16 16.69 MEAN 1.21 2.86 4.44 MAX 7.85 7.20 16.69 MIN 0.00 0.00 0.00	1991 0.23 0.35 1 0.47 1992 1.99 0.67 2.42 2.03 1993 3.17 0.26 9.55 10.57 1994 0.59 2.65 2.39 2.71 1995 0.28 5.3 4.49 12.47 1996 0 0.08 10.02 8.65 1997 1.61 3.58 11.67 11.07 1998 0.81 6.73 2.3 8.95 1999 0.71 4.29 1.57 2.11 2000 0.56 2.91 0.52 5.98 2001 2.54 1.15 1.13 3.36 2002 0.5 4.47 10.23 3.1 2003 0 3.8 13.86 2.42 2004 0 1.08 6.72 a 2.84 2005 2.3 3.3 6.66 5.52 2006 0.24 2.16 16.69 4.13 MEAN 1.21 2.86 4.44 4.95 MAX 7.85 7.20 16.69 12.47 MIN 0.00 0.00 0.00 0.30	1991 0.23 0.35 1 0.47 3.21 1992 1.99 0.67 2.42 2.03 7.09 1993 3.17 0.26 9.55 10.57 5.79 1994 0.59 2.65 2.39 2.71 4.31 1995 0.28 5.3 4.49 12.47 0.14 1996 0 0.08 10.02 8.65 8.34 1997 1.61 3.58 11.67 11.07 0.28 1998 0.81 6.73 2.3 8.95 14.71 1999 0.71 4.29 1.57 2.11 6.97 2000 0.56 2.91 0.52 5.98 11.25 2001 2.54 1.15 1.13 3.36 6.35 2002 0.5 4.47 10.23 3.1 1.37 2003 0 3.8 13.86 2.42 1.53 2004 0 1.08 6.72 a 2.84 7.68 2005 2.3 3.3 6.66 5.52 4.24 2006 0.24 2.16 16.69 4.13 4.02 MEAN 1.21 2.86 4.44 4.95 3.99 MAX 7.85 7.20 16.69 12.47 14.71 MIN 0.00 0.00 0.00 0.30 0.00	1991 0.23 0.35 1 0.47 3.21 9.17 1992 1.99 0.67 2.42 2.03 7.09 4.14 1993 3.17 0.26 9.55 10.57 5.79 2.48 1994 0.59 2.65 2.39 2.71 4.31 0.14 1995 0.28 5.3 4.49 12.47 0.14 9.21 1996 0 0.08 10.02 8.65 8.34 2.32 1997 1.61 3.58 11.67 11.07 0.28 0.52 1998 0.81 6.73 2.3 8.95 14.71 2.35 1999 0.71 4.29 1.57 2.11 6.97 2.85 2000 0.56 2.91 0.52 5.98 11.25 2.87 2001 2.54 1.15 1.13 3.36 6.35 1.37 2002 0.5 4.47 10.23 3.1 1.37 1.95 2003 0 3.8 13.86 2.42 1.53 2 2004 0 1.08 6.72 a 2.84 7.68 0.91 2005 2.3 3.3 6.66 5.52 4.24 4.28 2006 0.24 2.16 16.69 4.13 4.02 8.87 MEAN 1.21 2.86 4.44 4.95 3.99 3.13 MAX 7.85 7.20 16.69 12.47 14.71 10.89 MIN 0.00 0.00 0.00 0.30 0.00 0.14	1991 0.23 0.35 1 0.47 3.21 9.17 0.31 1992 1.99 0.67 2.42 2.03 7.09 4.14 0.63 1993 3.17 0.26 9.55 10.57 5.79 2.48 0.55 a 1994 0.59 2.65 2.39 2.71 4.31 0.14 1.19 1995 0.28 5.3 4.49 12.47 0.14 9.21 0.88 1996 0 0.08 10.02 8.65 8.34 2.32 2.18 1997 1.61 3.58 11.67 11.07 0.28 0.52 0.2 1998 0.81 6.73 2.3 8.95 14.71 2.35 2.3 1999 0.71 4.29 1.57 2.11 6.97 2.85 1.73 2000 0.56 2.91 0.52 5.98 11.25 2.87 1.29 2001 2.54 1.15 1.13 3.36 6.35 1.37 0.62 2002 0.5 4.47 10.23 3.1 1.37 1.95 0.1 2003 0 3.8 13.86 2.42 1.53 2 2.92 2004 0 1.08 6.72 a 2.84 7.68 0.91 0.16 2005 2.3 3.3 6.66 5.52 4.24 4.28 1.43 2006 0.24 2.16 16.69 4.13 4.02 8.87 4.96 MEAN 1.21 2.86 4.44 4.95 3.99 3.13 1.37 MAX 7.85 7.20 16.69 12.47 14.71 10.89 5.49 MIN 0.00 0.00 0.00 0.00 0.30 0.00 0.14 0.06	1991 0.23 0.35 1 0.47 3.21 9.17 0.31 0.09 1992 1.99 0.67 2.42 2.03 7.09 4.14 0.63 0 1993 3.17 0.26 9.55 10.57 5.79 2.48 0.55 a 0.86 1994 0.59 2.65 2.39 2.71 4.31 0.14 1.19 1.26 1995 0.28 5.3 4.49 12.47 0.14 9.21 0.88 1.21 1996 0 0.08 10.02 8.65 8.34 2.32 2.18 3.03 1997 1.61 3.58 11.67 11.07 0.28 0.52 0.2 0.47 1998 0.81 6.73 2.3 8.95 14.71 2.35 2.3 3.29 1999 0.71 4.29 1.57 2.11 6.97 2.85 1.73 0.03 2000 0.56 2.91 0.52 5.98 11.25 2.87 1.29 0.98 2001 2.54 1.15 1.13 3.36 6.35 1.37 0.62 0 2002 0.5 4.47 10.23 3.1 1.37 1.95 0.1 1.33 2003 0 3.8 13.86 2.42 1.53 2 2.92 1.02 2004 0 1.08 6.72 a 2.84 7.68 0.91 0.16 0.05 2005 2.3 3.3 6.66 5.52 4.24 4.28 1.43 1.46 2006 0.24 2.16 16.69 4.13 4.02 8.87 4.96 0.59 MEAN 1.21 2.86 4.44 4.95 3.99 3.13 1.37 0.54 MAX 7.85 7.20 16.69 12.47 14.71 10.89 5.49 3.29 MIN 0.00 0.00 0.00 0.00 0.30 0.00 0.14 0.06 0.00	1991 0.23 0.35 1 0.47 3.21 9.17 0.31 0.09 0.02 1992 1.99 0.67 2.42 2.03 7.09 4.14 0.63 0 0.49 1993 3.17 0.26 9.55 10.57 5.79 2.48 0.55 a 0.86 0.96 1994 0.59 2.65 2.39 2.71 4.31 0.14 1.19 1.26 0 1995 0.28 5.3 4.49 12.47 0.14 9.21 0.88 1.21 1.83 1996 0 0.08 10.02 8.65 8.34 2.32 2.18 3.03 0 1997 1.61 3.58 11.67 11.07 0.28 0.52 0.2 0.47 0.27 1998 0.81 6.73 2.3 8.95 14.71 2.35 2.3 3.29 0 1999 0.71 4.29 1.57 2.11 6.97 2.85 1.73 0.03 0 2000 0.56 2.91 0.52 5.98 11.25 2.87 1.29 0.98 0.17 2001 2.54 1.15 1.13 3.36 6.35 1.37 0.62 0 0.08 2002 0.5 4.47 10.23 3.1 1.37 1.95 0.1 1.33 0 2003 0 3.8 13.86 2.42 1.53 2 2.92 1.02 0 2004 0 1.08 6.72 a 2.84 7.68 0.91 0.16 0.05 0 2005 2.3 3.3 6.66 5.52 4.24 4.28 1.43 1.46 0.28 2006 0.24 2.16 16.69 4.13 4.02 8.87 4.96 0.59 0	1991 0.23 0.35 1 0.47 3.21 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0.02 0 0.02 0 1992 1.99 0.67 2.42 2.03 7.09 4.14 0.63 0 0.49 0 0 0 0 1993 3.17 0.26 9.55 10.57 5.79 2.48 0.55 a 0.86 0.96 0 0 0 0 0 1994 0.59 2.65 2.39 2.71 4.31 0.14 1.19 1.26 0 0 0 0.02 1995 0.28 5.3 4.49 12.47 0.14 9.21 0.88 1.21 1.83 0 0 0 0 1996 0 0.08 10.02 8.65 8.34 2.32 2.18 3.03 0 0 0 0 0 1997 1.61 3.58 11.67 11.07 0.28 0.52 0.2 0.47 0.27 0 0.41 0 1998 0.81 6.73 2.3 8.95 14.71 2.35 2.3 3.29 0 0 0 0 0.04 1999 0.71 4.29 1.57 2.11 6.97 2.85 1.73 0.03 0 0 0 0 0.04 2000 0.56 2.91 0.52 5.98 11.25 2.87 1.29 0.98 0.17 0 0 0.08 2001 2.54 1.15 1.13 3.36 6.35 1.37 0.62 0 0.08 0 0 0 0 0 0 0 0 20 2002 0.5 4.47 10.23 3.1 1.37 1.95 0.1 1.33 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1990 1.39 1.09 1.09 1.09 1.02 0.35 1 0.47 3.21 9.17 0.31 0.09 0.02 0 0.02 0 14.87 1992 1.99 0.67 2.42 2.03 7.09 4.14 0.63 0 0.49 0 0 0 0 19.46 1993 3.17 0.26 9.55 10.57 5.79 2.48 0.55 a 0.86 0.96 0 0 0 0.02 15.26 1995 0.28 5.3 4.49 12.47 0.14 9.21 0.88 1.21 1.83 0 0 0 0 35.81 1996 0 0.08 10.02 8.65 8.34 2.32 2.18 3.03 0 0 0 0 34.62 1997 1.61 3.58 11.67 11.07 0.28 0.52 0.2 0.47 0.27 0 0.41 0 30.08 1998 0.81 6.73 2.3 8.95 14.71 2.35 2.3 3.29 0 0 0 0.03 44.78 1999 0.71 4.29 1.57 2.11 6.97 2.85 1.73 0.03 0 0 0 0 0.04 20.30 2000 0.56 2.91 0.52 5.98 11.25 2.87 1.29 0.98 0.17 0 0 0.08 26.61 2001 2.54 1.15 1.13 3.36 6.35 1.37 0.62 0 0.08 0 0 0 0.2 16.80 2002 0.5 4.47 10.23 3.1 1.37 1.95 0.1 1.33 0 0 0 0 0.2 16.80 2002 0.5 4.47 10.23 3.1 1.37 1.95 0.1 1.33 0 0 0 0 0 0.2 16.80 2004 0 1.08 6.72 a 2.84 7.68 0.91 0.16 0.05 0 0 0 0.04 19.48 2005 2.3 3.3 6.66 5.52 4.24 4.28 1.43 1.46 0.28 0 0 0.01 29.48 2006 0.24 2.16 16.69 4.13 4.02 8.87 4.96 0.59 0 0 0 0 0 0.00 0.00 0.00 9.72 MMAX 7.85 7.20 16.69 12.47 14.71 10.89 5.49 3.29 1.83 0.60 1.18 2.49 41.78 MIN 0.00 0.00 0.00 0.00 0.30 0.00 0.14 0.06 0.00 0.00 0.00 0.00 0.00 0.00 9.72

Attachments to Accompany Water Right Application Hestan Vineyards, LLC

Attachment #3
7. Place of Use

Use Within	Section	Township	Range	B. & M.	Acres	Previously Cultivated
NE1/4 of SE1/4	31	T6N	R2W	M.D.	3	No
SE¼ of SE¼	31	T6N	R2W	M.D.	7	No
SW1/4 of NW1/4	32	T6N	R2W	M.D.	15	Yes
SE1/4 of NW1/4	32	T6N	R2W	M.D.	4	Yes
NW1/4 of SW1/4	32	T6N	R2W	M.D.	30	Partially
NE1/4 of SW1/4	32	T6N	R2W	M.D.	21	Yes
NW1/4 of SE1/4	32	T6N	R2W	M.D.	2	Yes
SW1/4 of SW1/4	32	T6N	R2W	M.D.	5	Partially
				Total	87	

Recreati	on BE	11
Reservoir	Use Within Section Township Range Di	n
	NW14 of SW14 32 TON RZW M NE14 of SW14 32 TON RZW M	-
	NETHOSVITISZ TWN RZIV	
7	SEYHOFSEYH31 TON RZW M.	

5/23/07 moren